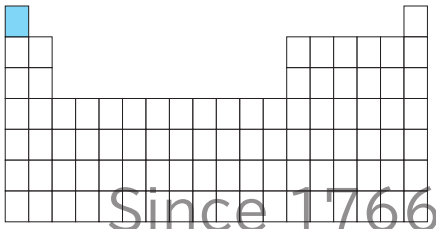
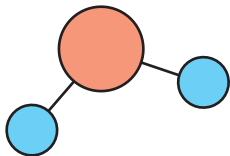
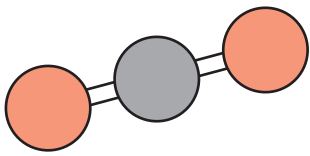
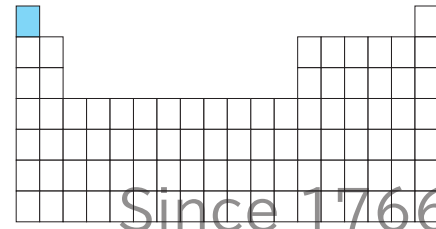
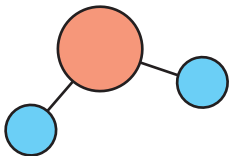
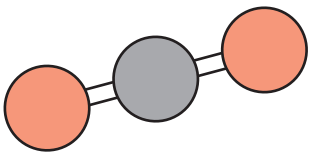
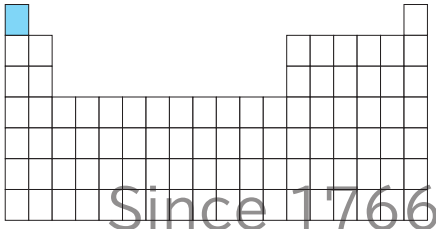
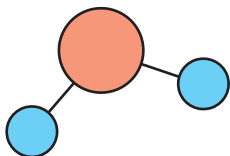
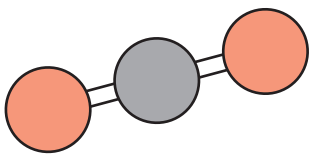
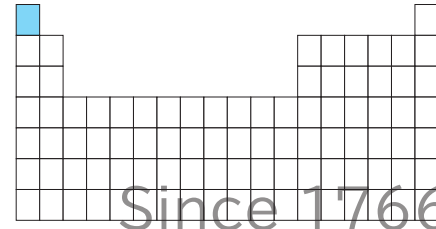
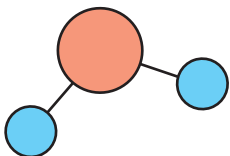
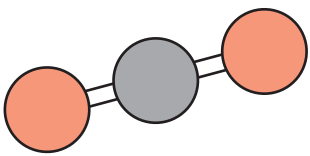
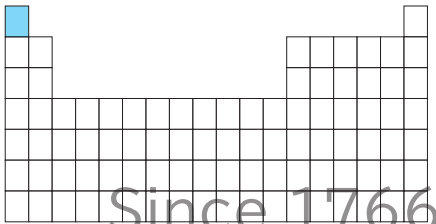
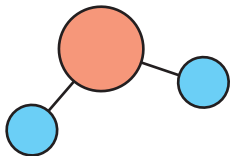
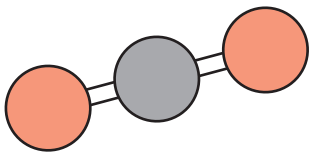
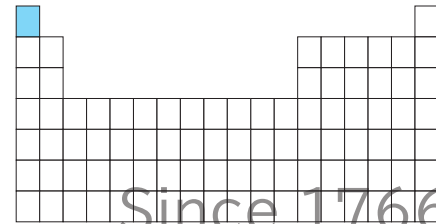
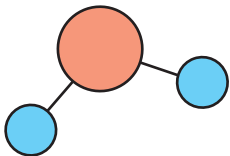
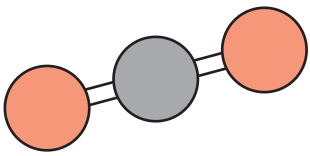
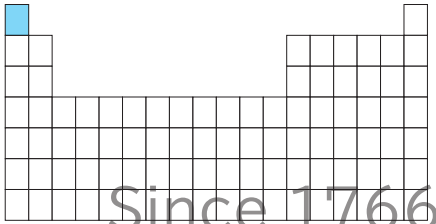
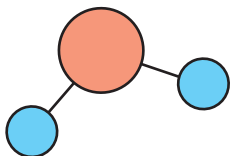
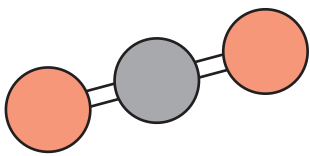
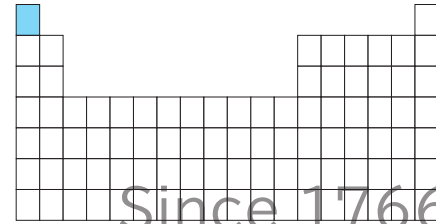
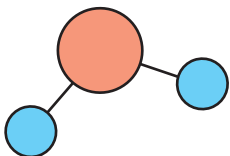
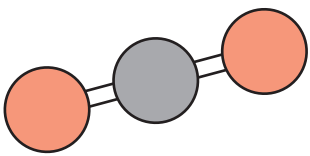
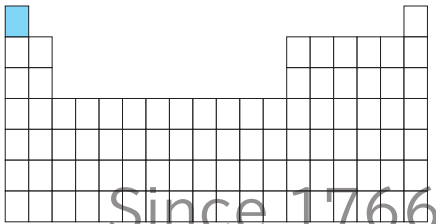
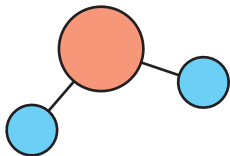
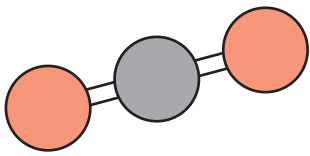
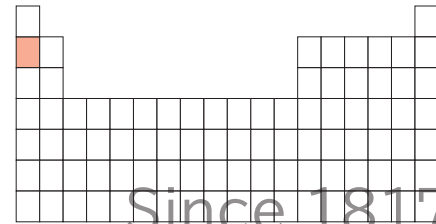
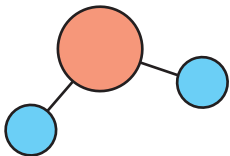
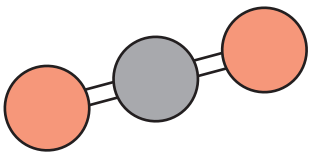
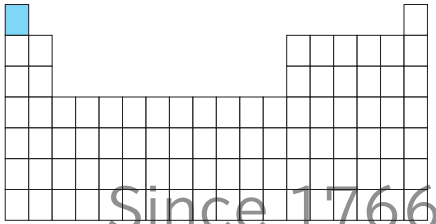
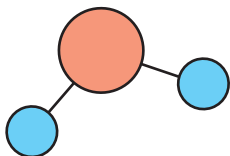
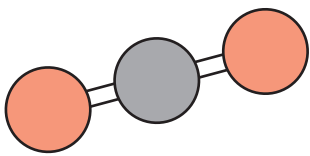
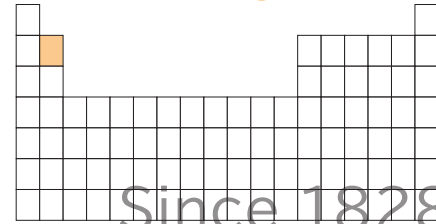
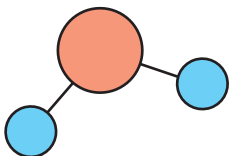
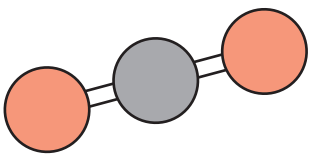
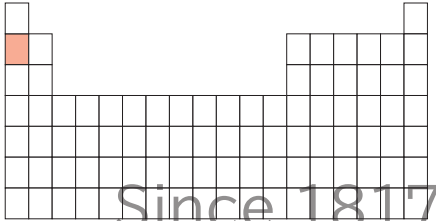
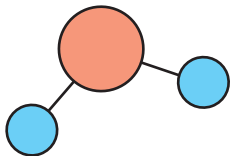
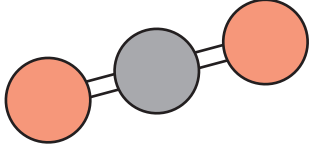
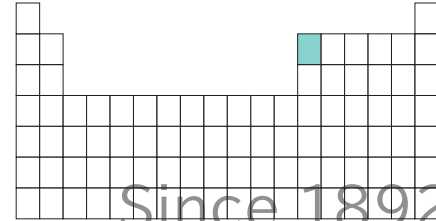
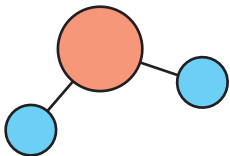
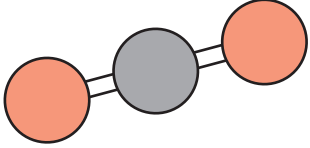
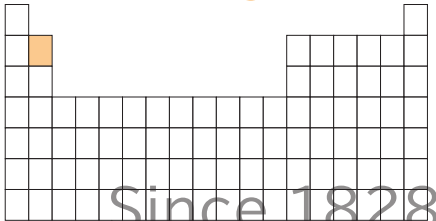
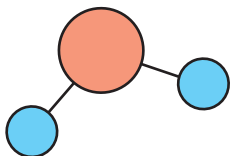
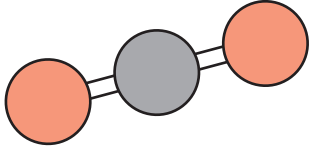
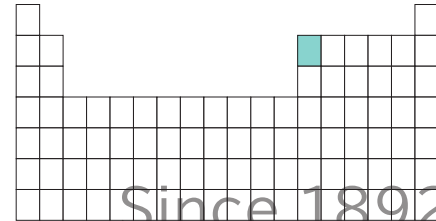
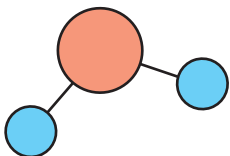
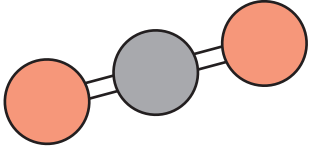


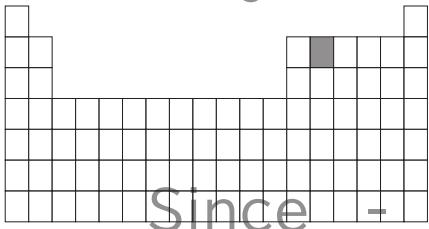
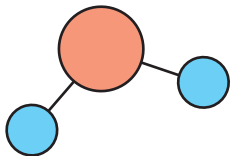
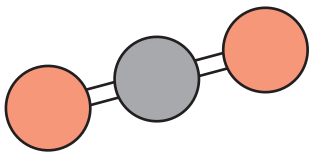
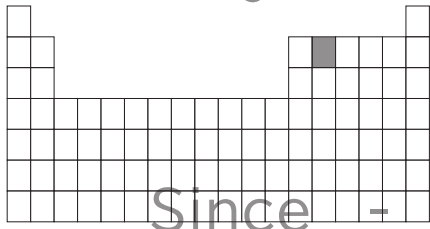
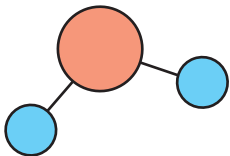
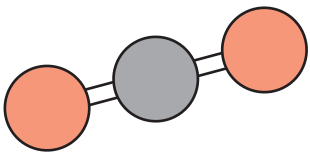
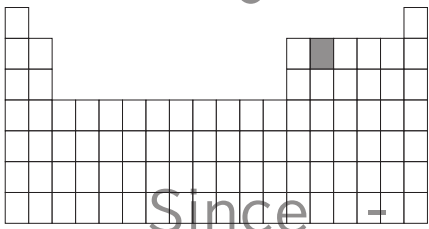
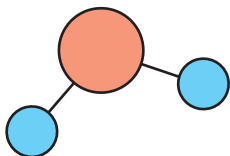
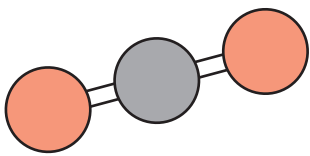
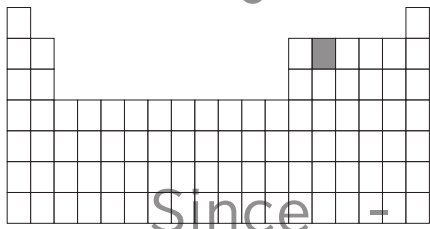
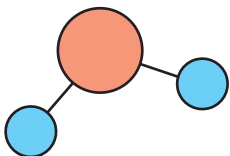
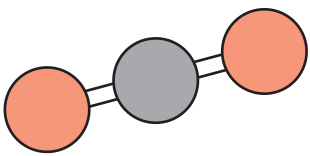


<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 
<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 

<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 
<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 

<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Lithium</p> <p>アルカリ金属</p> <p>リチウム</p> <p>3</p> <p>Ionized Li<sup>+</sup></p> <p>Li</p>  <p>Since 1817</p>	 <p>元素カードゲーム</p> 
<p>Hydrogen</p> <p>水素</p> <p>1</p> <p>Ionized H<sup>+</sup></p> <p>H</p>  <p>Since 1766</p>	 <p>元素カードゲーム</p> 	<p>Beryllium</p> <p>アルカリ土類金属</p> <p>ベリリウム</p> <p>4</p> <p>Ionized Be<sup>2+</sup></p> <p>Be</p>  <p>Since 1828</p>	 <p>元素カードゲーム</p> 

<p>Lithium</p> <p>アルカリ金属</p> <p>3</p> <p>リチウム</p> <p>Ionized <math>\text{Li}^+</math></p> <p><b>Li</b></p>  <p>Since 1817</p>	 <p>元素カードゲーム</p> 	<p>Boron</p> <p>メタロイド</p> <p>5</p> <p>ホウ素</p> <p><b>B</b></p>  <p>Since 1892</p>	 <p>元素カードゲーム</p> 
<p>Beryllium</p> <p>アルカリ土類金属</p> <p>4</p> <p>ベリリウム</p> <p>Ionized <math>\text{Be}^{2+}</math></p> <p><b>Be</b></p>  <p>Since 1828</p>	 <p>元素カードゲーム</p> 	<p>Boron</p> <p>メタロイド</p> <p>5</p> <p>ホウ素</p> <p><b>B</b></p>  <p>Since 1892</p>	 <p>元素カードゲーム</p> 

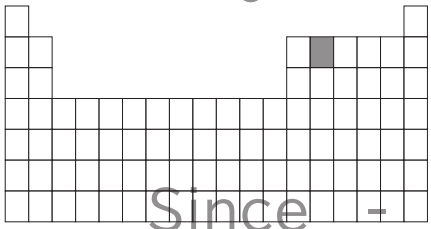
<p>Carbon</p> <p>炭素</p> <p>6</p> <p>C</p>  <p>Since -</p>	 <p>元素カードゲーム</p> 	<p>Carbon</p> <p>炭素</p> <p>6</p> <p>C</p>  <p>Since -</p>	 <p>元素カードゲーム</p> 
<p>Carbon</p> <p>炭素</p> <p>6</p> <p>C</p>  <p>Since -</p>	 <p>元素カードゲーム</p> 	<p>Carbon</p> <p>炭素</p> <p>6</p> <p>C</p>  <p>Since -</p>	 <p>元素カードゲーム</p> 

Carbon

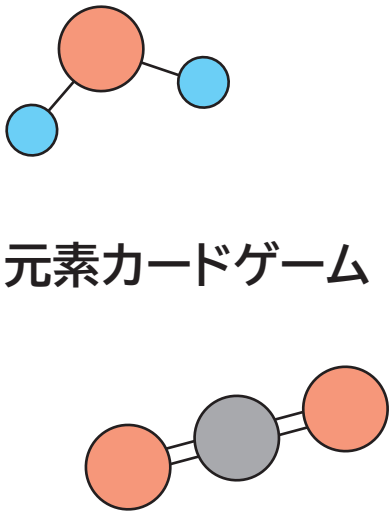
炭素

6

C



Since -



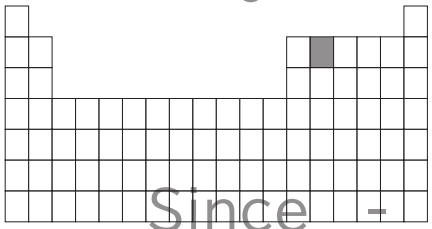
元素カードゲーム

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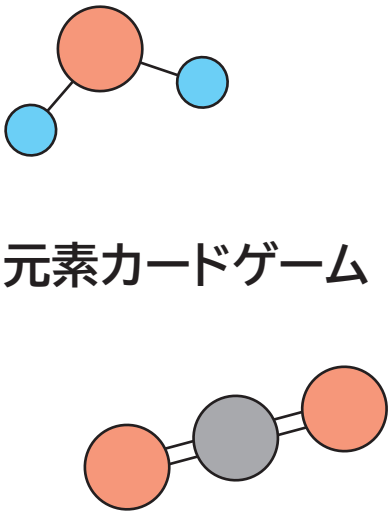
炭素

6

C



Since -



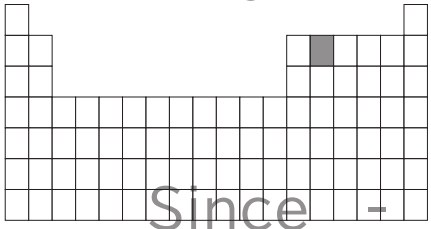
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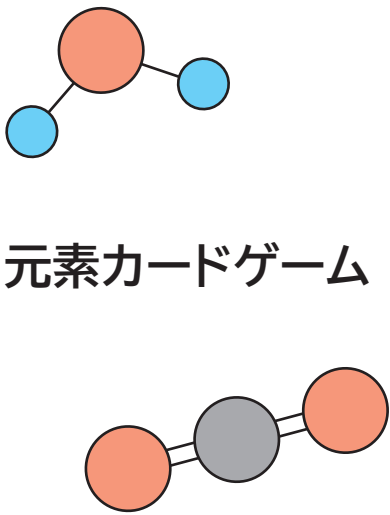
炭素

6

C



Since -



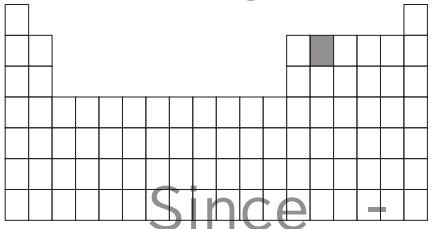
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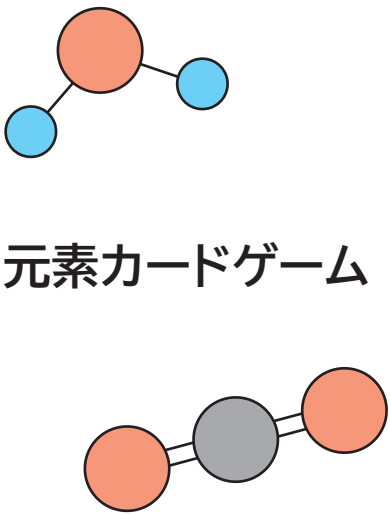
炭素

6

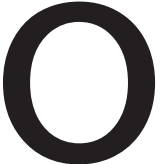
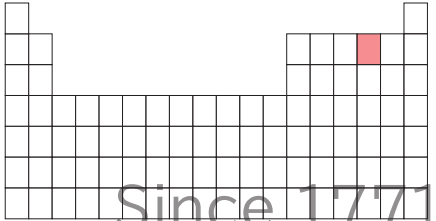
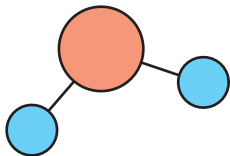
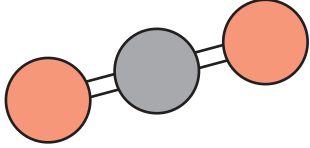

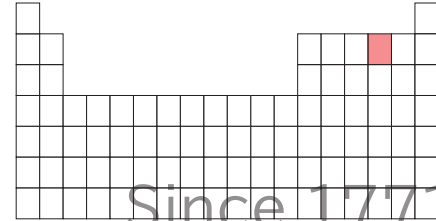
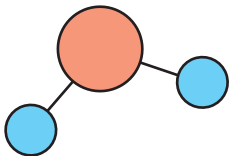
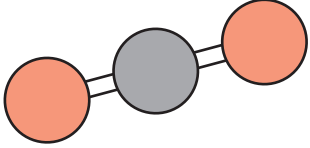
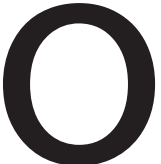
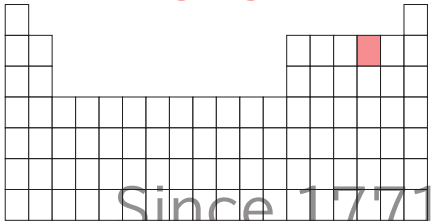
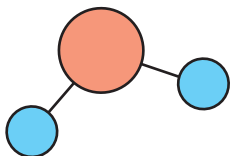
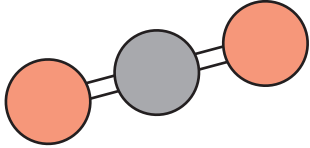

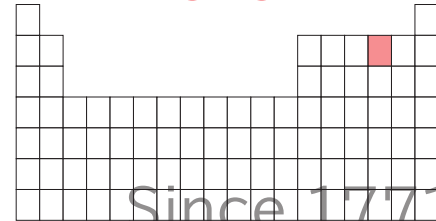
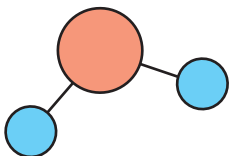
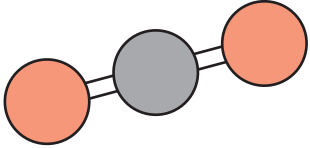
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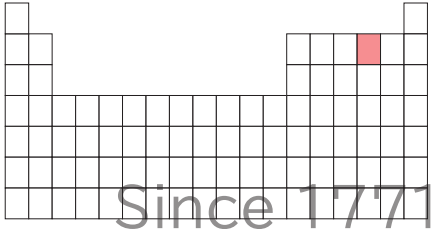
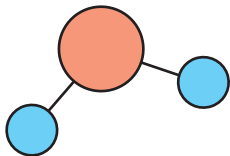
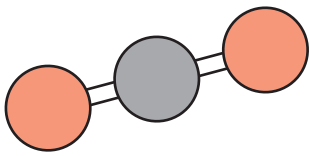
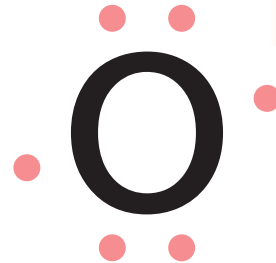
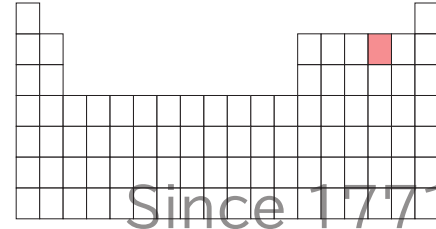
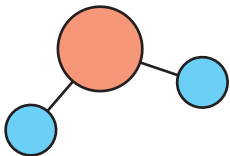
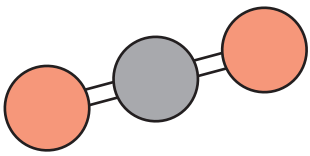
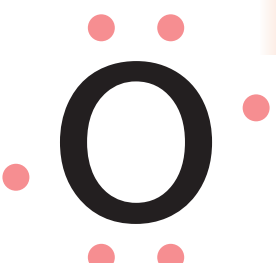
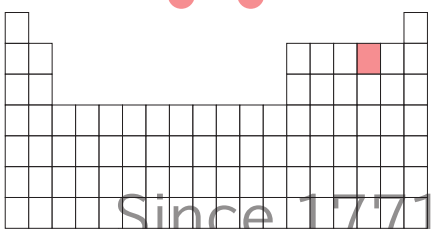
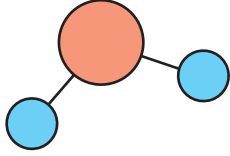
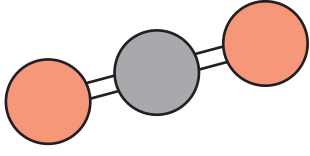
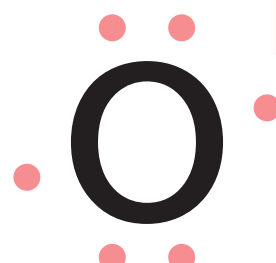
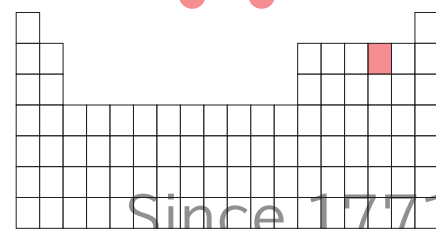
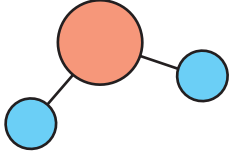
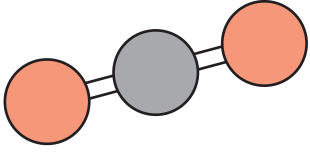
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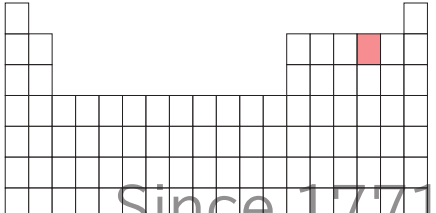
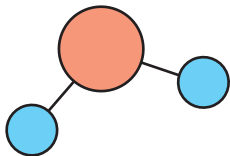
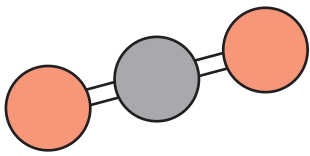
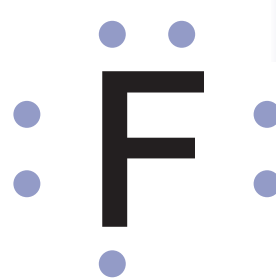
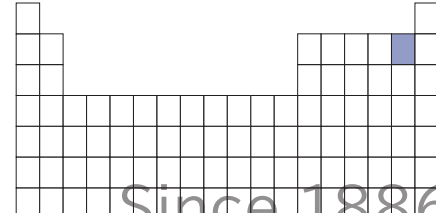
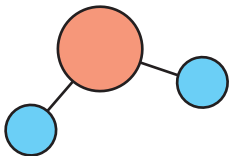
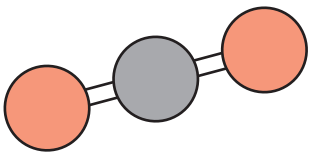

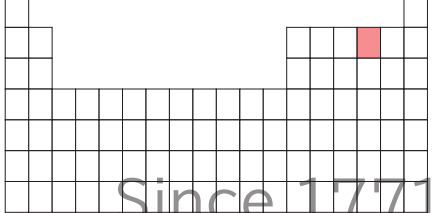
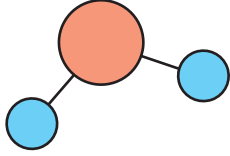
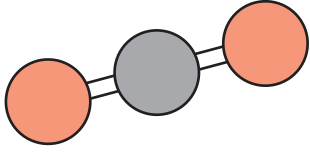
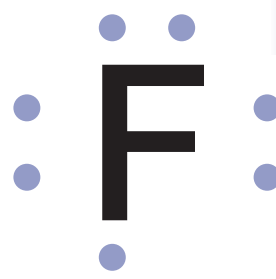
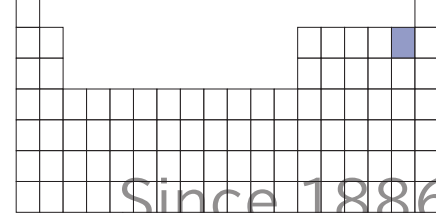
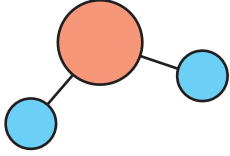
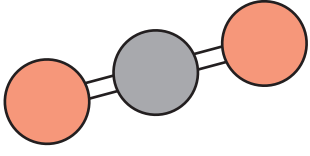


元素カードゲーム

<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 
<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 



<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 
<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 

<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Fluorine</p> <p>ハロゲン</p> <p>フッ素</p> <p>9</p> <p>Ionized <math>F^-</math></p>   <p>Since 1886</p>	 <p>元素カードゲーム</p> 
<p>Oxygen</p> <p>酸素</p> <p>8</p> <p>Ionized <math>O^{2-}</math></p>   <p>Since 1771</p>	 <p>元素カードゲーム</p> 	<p>Fluorine</p> <p>ハロゲン</p> <p>フッ素</p> <p>9</p> <p>Ionized <math>F^-</math></p>   <p>Since 1886</p>	 <p>元素カードゲーム</p> 

Fluorine

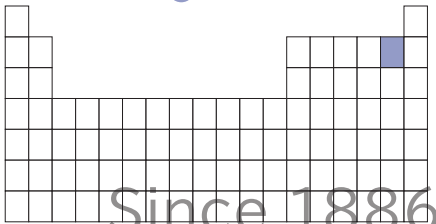
ハロゲン 9

フッ素

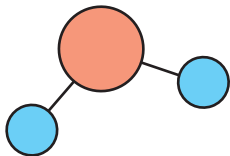
Ionized F<sup>-</sup>

●●  
●●  
●●  
●●

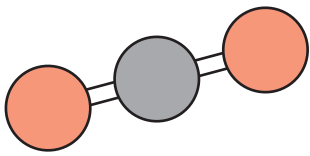
**F**



Since 1886



元素カードゲーム



Silicon

メタロイド 14

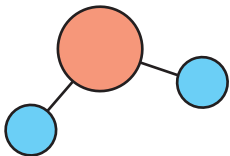
ケイ素

●●  
●●

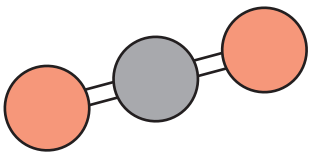
**Si**



Since 1823



元素カードゲーム



Fluorine

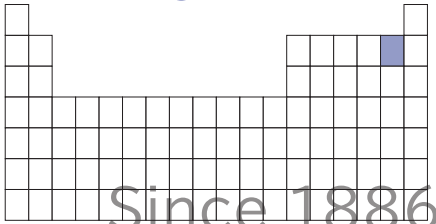
ハロゲン 9

フッ素

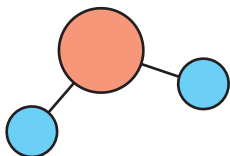
Ionized F<sup>-</sup>

●●  
●●  
●●  
●●

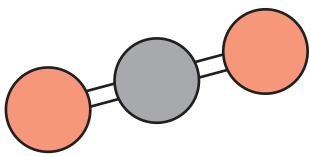
**F**



Since 1886



元素カードゲーム



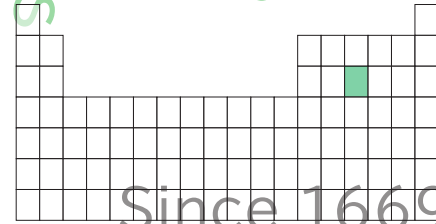
Phosphorus

15

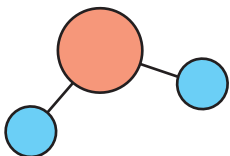
リン

●●  
●●  
●●

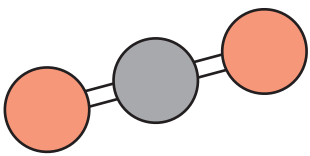
**P**

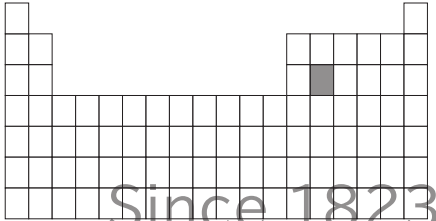
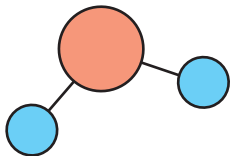
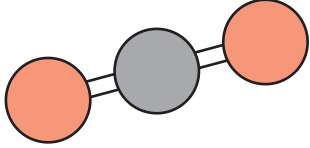
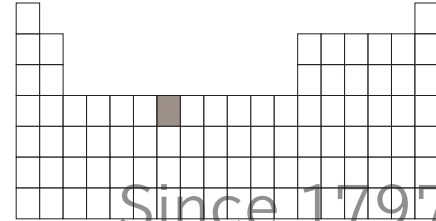
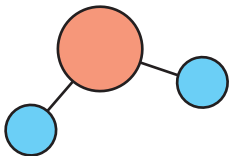
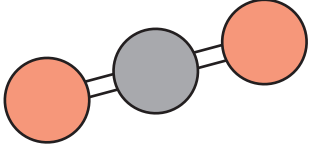
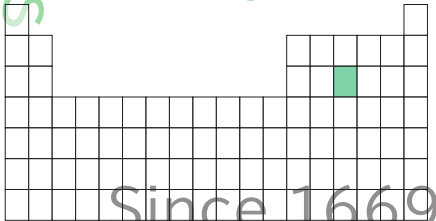
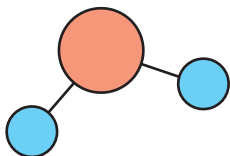
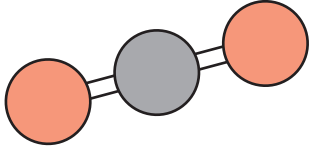
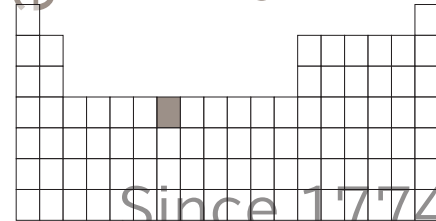
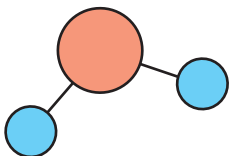
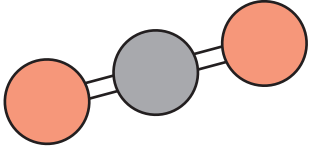


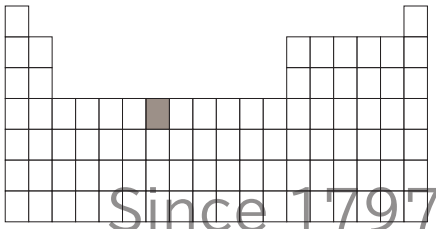
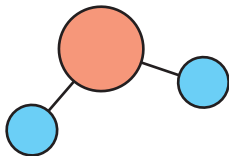
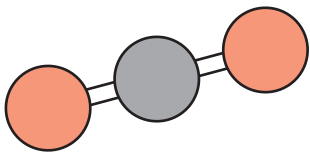
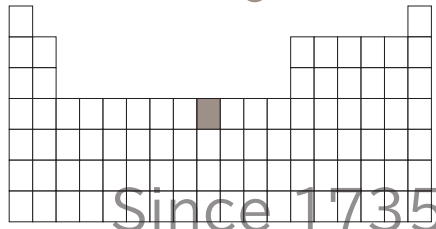
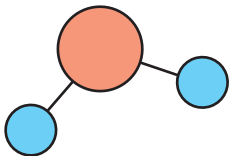
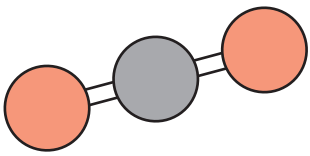
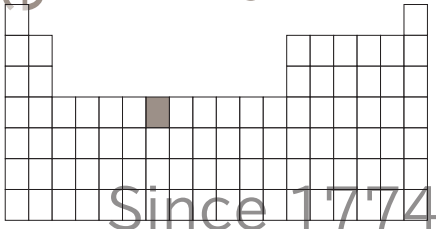
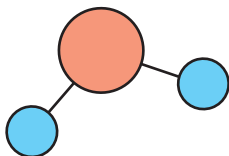
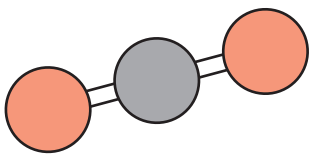
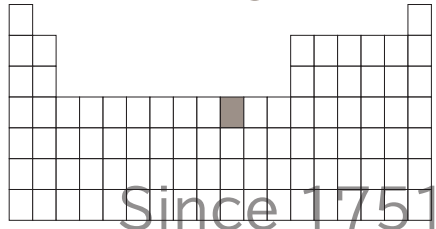
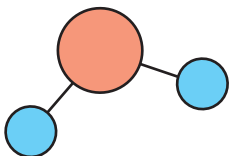
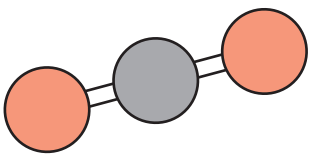
Since 1669

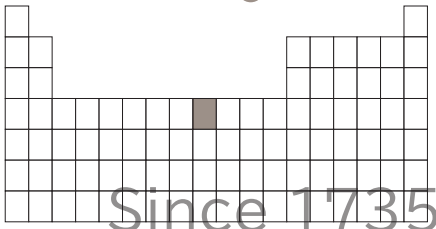
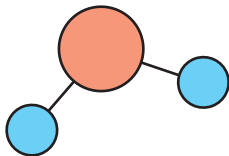
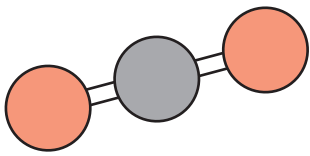
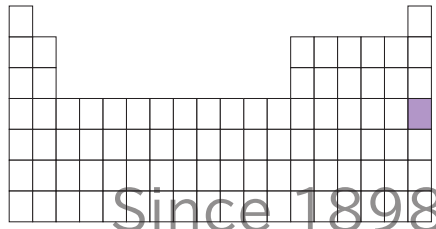
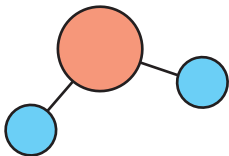
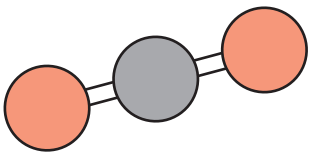
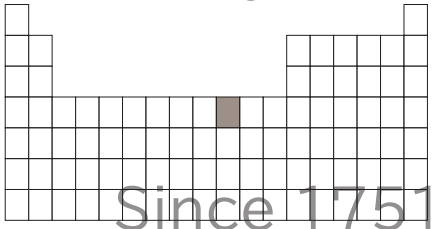
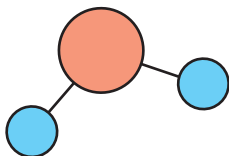
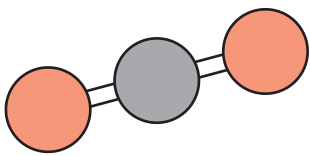
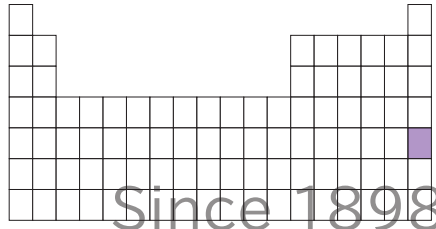
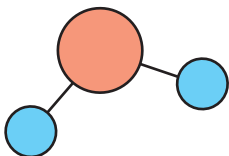
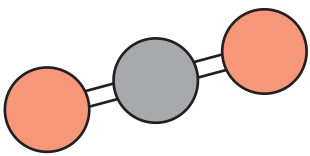


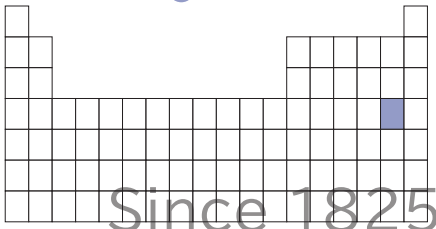
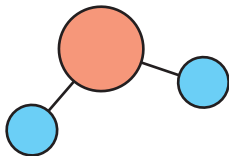
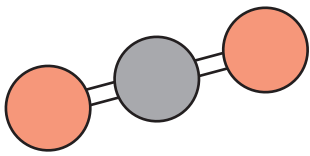
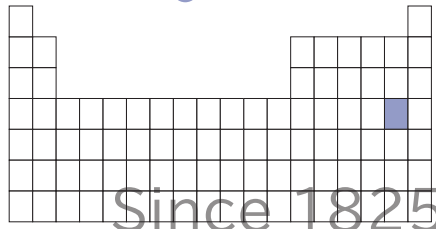
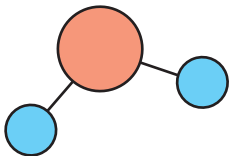
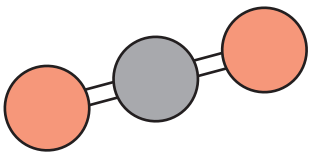
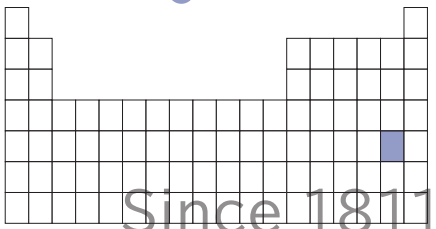
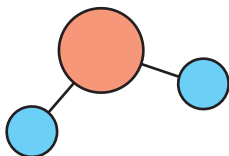
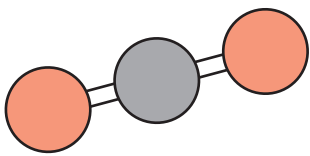
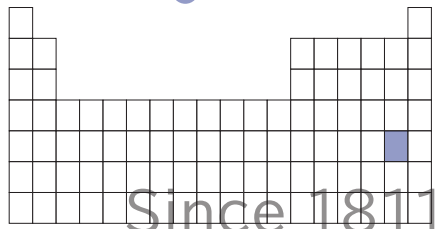
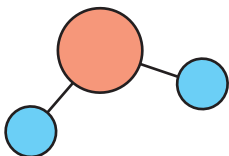
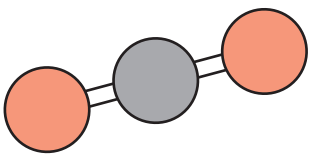
元素カードゲーム

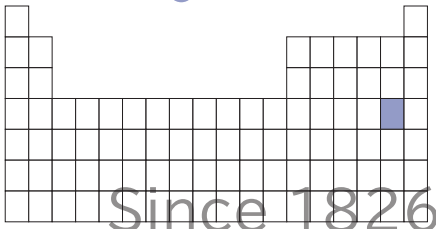
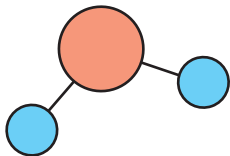
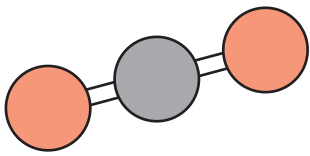
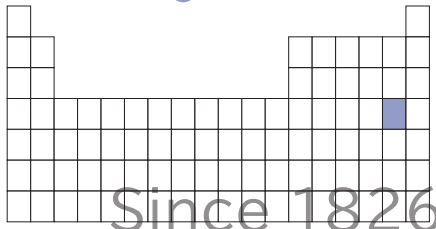
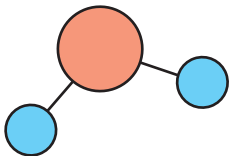
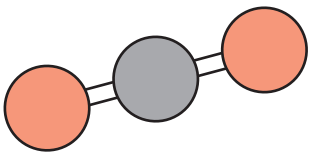
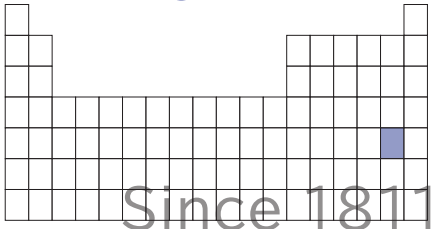
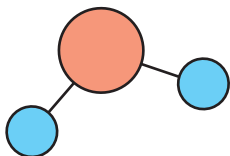
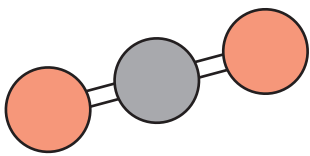
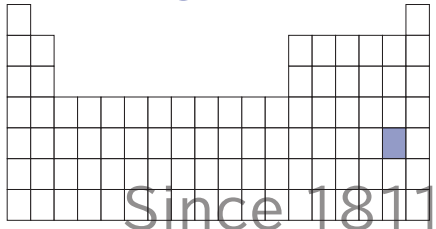
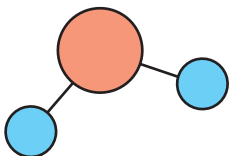
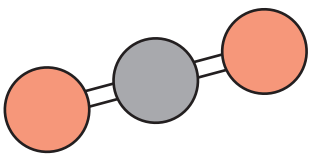


<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Silicon</p> <p style="text-align: right;">メタロイド (14)</p> <p style="text-align: center;">ケイ素</p> <p style="font-size: 2em; text-align: center;">Si</p>  <p style="text-align: center;">Since 1823</p>	 <p style="text-align: center;">元素カードゲーム</p> 	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Chromium</p> <p style="text-align: right;">遷移金属 (24)</p> <p style="text-align: center;">クロム (Ⅲ)</p> <p style="text-align: right;">Ionized Cr<sup>3+</sup></p> <p style="font-size: 2em; text-align: center;">Cr</p>  <p style="text-align: center;">Since 1797</p>	 <p style="text-align: center;">元素カードゲーム</p> 
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Phosphorus</p> <p style="text-align: right;">(15)</p> <p style="text-align: center;">リン</p> <p style="font-size: 2em; text-align: center;">P</p>  <p style="text-align: center;">Since 1669</p>	 <p style="text-align: center;">元素カードゲーム</p> 	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Manganese</p> <p style="text-align: right;">遷移金属 (25)</p> <p style="text-align: center;">マンガン (Ⅱ)</p> <p style="text-align: right;">Ionized Mn<sup>2+</sup></p> <p style="font-size: 2em; text-align: center;">Mn</p>  <p style="text-align: center;">Since 1774</p>	 <p style="text-align: center;">元素カードゲーム</p> 

<p>遷移金属 (24)</p> <p>クロム (Ⅲ) Ionized <math>\text{Cr}^{3+}</math></p> <p>Chromium</p> <p><b>Cr</b></p>  <p>Since 1797</p>	 <p>元素カードゲーム</p> 	<p>遷移金属 (27)</p> <p>コバルト (Ⅱ) Ionized <math>\text{Co}^{2+}</math></p> <p>Cobalt</p> <p><b>Co</b></p>  <p>Since 1735</p>	 <p>元素カードゲーム</p> 
<p>遷移金属 (25)</p> <p>マンガン (Ⅱ) Ionized <math>\text{Mn}^{2+}</math></p> <p>Manganese</p> <p><b>Mn</b></p>  <p>Since 1774</p>	 <p>元素カードゲーム</p> 	<p>遷移金属 (28)</p> <p>ニッケル Ionized <math>\text{Ni}^{2+}</math></p> <p>Nickel</p> <p><b>Ni</b></p>  <p>Since 1751</p>	 <p>元素カードゲーム</p> 

<p>Cobalt</p> <p>遷移金属 (27)</p> <p>コバルト (II)</p> <p>Ionized <math>\text{Co}^{2+}</math></p> <p><b>Co</b></p>  <p>Since 1735</p>	 <p>元素カードゲーム</p> 	<p>Krypton</p> <p>希ガス (36)</p> <p>クリプトン</p> <p>Ionized -</p> <p><b>Kr</b></p>  <p>Since 1898</p>	 <p>元素カードゲーム</p> 
<p>Nickel</p> <p>遷移金属 (28)</p> <p>ニッケル</p> <p>Ionized <math>\text{Ni}^{2+}</math></p> <p><b>Ni</b></p>  <p>Since 1751</p>	 <p>元素カードゲーム</p> 	<p>Xenon</p> <p>希ガス (54)</p> <p>キセノン</p> <p>Ionized -</p> <p><b>Xe</b></p>  <p>Since 1898</p>	 <p>元素カードゲーム</p> 

<p>Bromine</p> <p>ハロゲン (35)</p> <p>臭素</p> <p>Ionized Br<sup>-</sup></p> <p>Br</p>  <p>Since 1825</p>	 <p>元素カードゲーム</p> 	<p>Bromine</p> <p>ハロゲン (35)</p> <p>臭素</p> <p>Ionized Br<sup>-</sup></p> <p>Br</p>  <p>Since 1825</p>	 <p>元素カードゲーム</p> 
<p>Iodine</p> <p>ハロゲン (53)</p> <p>ヨウ素</p> <p>Ionized I<sup>-</sup></p> <p>I</p>  <p>Since 1811</p>	 <p>元素カードゲーム</p> 	<p>Iodine</p> <p>ハロゲン (53)</p> <p>ヨウ素</p> <p>Ionized I<sup>-</sup></p> <p>I</p>  <p>Since 1811</p>	 <p>元素カードゲーム</p> 

<p>Bromine</p> <p>ハロゲン (35)</p> <p>臭素</p> <p>Ionized Br<sup>-</sup></p> <p>Br</p>  <p>Since 1826</p>	 <p>元素カードゲーム</p> 	<p>Bromine</p> <p>ハロゲン (35)</p> <p>臭素</p> <p>Ionized Br<sup>-</sup></p> <p>Br</p>  <p>Since 1826</p>	 <p>元素カードゲーム</p> 
<p>Iodine</p> <p>ハロゲン (53)</p> <p>ヨウ素</p> <p>Ionized I<sup>-</sup></p> <p>I</p>  <p>Since 1811</p>	 <p>元素カードゲーム</p> 	<p>Iodine</p> <p>ハロゲン (53)</p> <p>ヨウ素</p> <p>Ionized I<sup>-</sup></p> <p>I</p>  <p>Since 1811</p>	 <p>元素カードゲーム</p> 



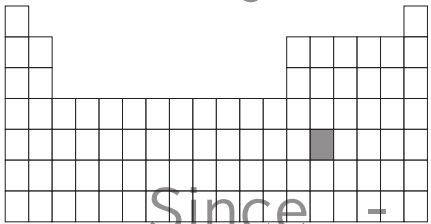
Tin

半導体 (50)

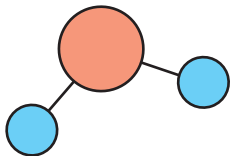
スズ (IV)

Ionized  $\text{Sn}^{4+}$

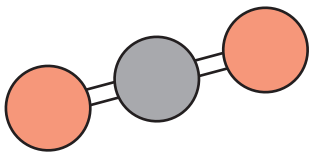
**Sn**



Since -



元素カードゲーム



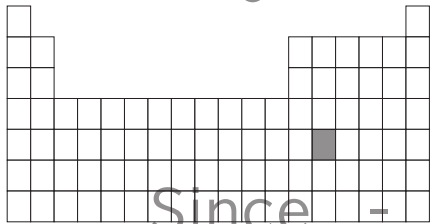
Tin

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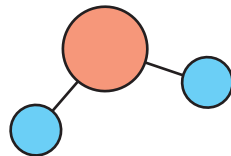
スズ (IV)

Ionized  $\text{Sn}^{4+}$

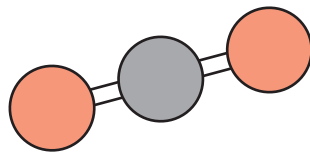
**Sn**



Since -



元素カードゲーム



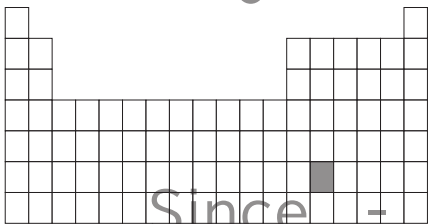
Lead

半導体 (82)

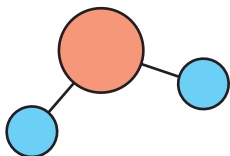
鉛 (II)

Ionized  $\text{Pb}^{2+}$

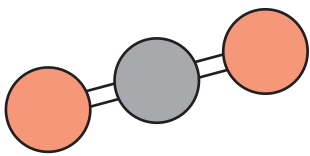
**Pb**



Since -



元素カードゲーム



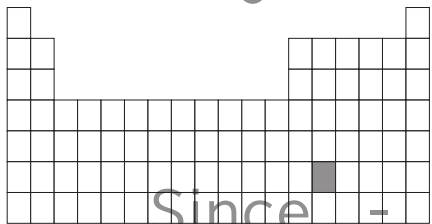
Lead

半導体 (82)

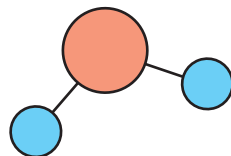
鉛 (II)

Ionized  $\text{Pb}^{2+}$

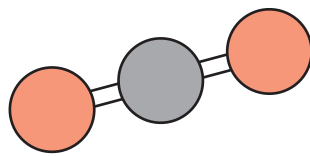
**Pb**



Since -



元素カードゲーム



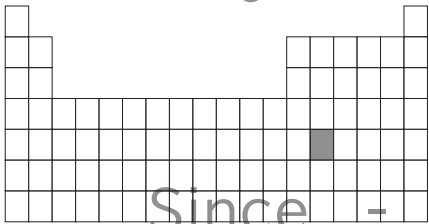
Tin

半導体 (50)

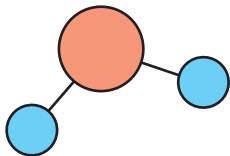
スズ (IV)

Ionized  $\text{Sn}^{4+}$

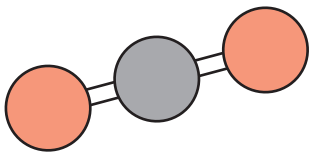
**Sn**



Since -



元素カードゲーム



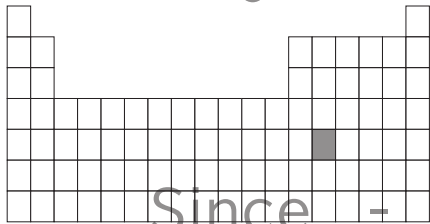
Tin

半導体 (50)

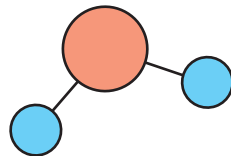
スズ (IV)

Ionized  $\text{Sn}^{4+}$

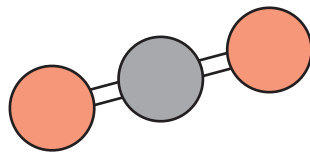
**Sn**



Since -



元素カードゲーム



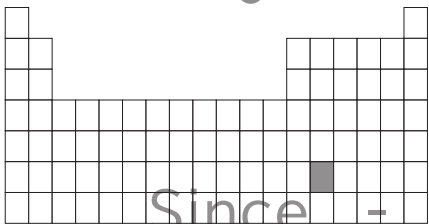
Lead

半導体 (82)

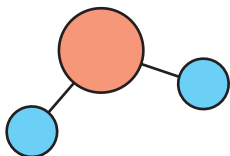
鉛 (II)

Ionized  $\text{Pb}^{2+}$

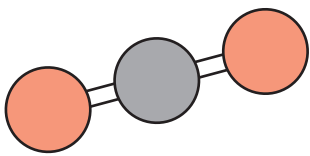
**Pb**



Since -



元素カードゲーム



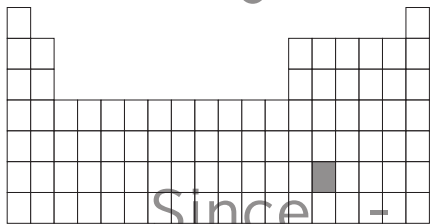
Lead

半導体 (82)

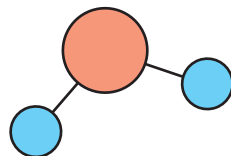
鉛 (II)

Ionized  $\text{Pb}^{2+}$

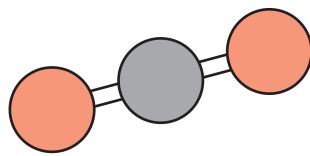
**Pb**

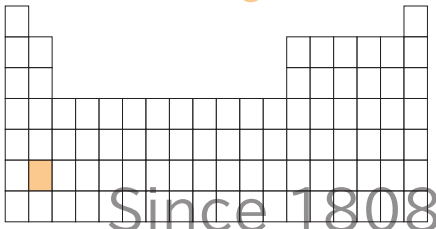
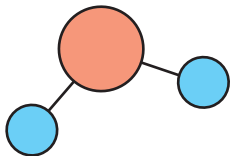
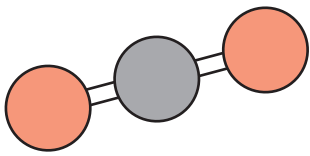
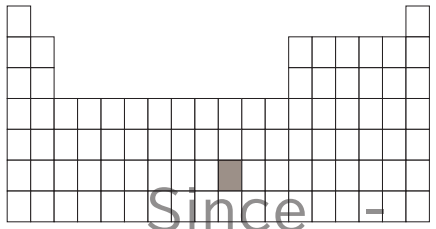
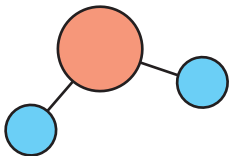
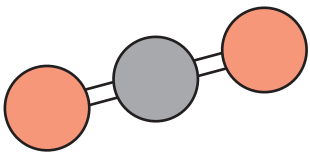
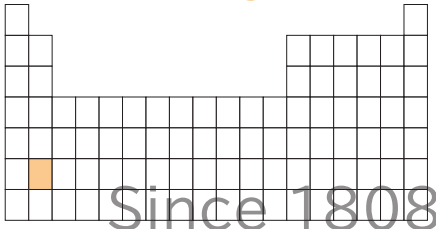
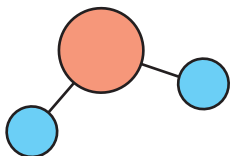
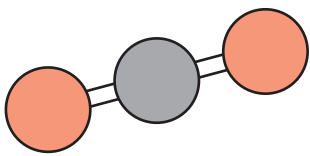
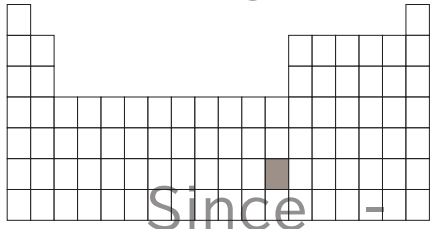
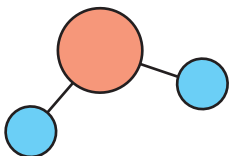


Since -



元素カードゲーム



<p>Barium</p> <p>アルカリ土類金属</p> <p>56</p> <p>バリウム</p> <p>●</p> <p>Ionized Ba<sup>2+</sup></p> <p><b>Ba</b></p> <p>●</p>  <p>Since 1808</p>	 <p>元素カードゲーム</p> 	<p>Platinum</p> <p>遷移金属</p> <p>78</p> <p>白金</p> <p>●</p> <p><b>Pt</b></p>  <p>Since -</p>	 <p>元素カードゲーム</p> 
<p>Barium</p> <p>アルカリ土類金属</p> <p>56</p> <p>バリウム</p> <p>●</p> <p>Ionized Ba<sup>2+</sup></p> <p><b>Ba</b></p> <p>●</p>  <p>Since 1808</p>	 <p>元素カードゲーム</p> 	<p>Mercury</p> <p>遷移金属</p> <p>80</p> <p>水銀</p> <p>●</p> <p>Ionized Hg<sup>2+</sup></p> <p><b>Hg</b></p> <p>●</p>  <p>Since -</p>	 <p>元素カードゲーム</p> 